RRRRR	RRRRRRR RRRRRRR RRRRRRR RRR	UUU UUU UUU	UUU UUU UUU	NNN NNN NNN	NNN NNN NNN	0000	000000	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	
RRR	RRR	UUU	UUU	NNN	NNN	000	000	FFF	FFF	
RRR	RRR	UUU	UUU	NNN	NNN		000	FFF	FFF	
RRR	RRR	UUU	UUU	NNNNN			000	FFF	FFF	
RRR	RRR	UUU	UUU	NNNNN			000	FFF	FFF	
RRR	RRR	UUU	UUU	NNNNN			000	FFF	FFF	
	RRRRRRR	UUU	UUU	NNN	NNN NNN		000	FFFFFFFFFF	FFFFFFFFFF	
	RRRRRRR	UUU	UUU	NNN	NNN NNN		000	FFFFFFFFFF	FFFFFFFFFF	
	RRRRRRR	UUU	UUU	NNN	NNN NNN		000	FFFFFFFFFF	FFFFFFFFFF	
RRR	RRR	UUU	UUU	NNN	NNNNN		000	FFF	FFF	
RRR	RRR	UUU	UUU	NNN	NNNNN		000	FFF	FFF	
RRR	RRR	UUU	UUU	NNN	NNNNN		000	FFF	FFF	
RRR	RRR	UUU	UUU	NNN	NNN		000	FFF	FFF	
RRR	RRR	UUU	UUU	NNN	NNN		000	FFF	FFF	
RRR	RRR	UUU	UUU	NNN	NNN		000	FFF	FFF	
RRR	RRR	UUUUUUUUU		NNN	NNN	0000	000000	FFF	FFF	
RRR	RRR	UUUUUUUUU		NNN	NNR	0000	000000	FFF	FFF	
RRR	RRR	UUUUUUUU	UUUUUU	NNN	NNN	0000	000000	FFF	FFF	

\_\$2

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	\$	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	666666666666666666666666666666666666666
		\$			

00000000 00000000

999999 999999 99

666666 666666

CREATION DATE: May, 1979

AUTHOR: R.W.Friday

Page

DSPPAG V04-000	Processes the .DISPLAY Revision History	NUMBER, & .DISPLAY SUBPA 16-Sep-1984 00:22:09 14-Sep-1984 13:06:03	VAX-11 Bliss-32 V4.0-742 ERUNOFF.SRCJDSPPAG.BLI:1	Page 2
445 447 449 55 55 55 55 55 55 55 55 55 55 55 55 55	0043 1 %SBTTL 'Revisio 0044 1 ! 0045 1 ! MODIFIED BY: 0046 1 ! 0047 1 ! 004 0048 1 ! 0049 1 ! 0050 1 ! 0051 1 ! 0052 1 ! 003 0053 1 ! 0054 1 ! 0055 1 !	REMOOOO4 Ray Marshall 27-April-1983 To decommit this routine's handling of the .DISI .DISPLAY CHAPTER directives. They will hence by code DSPENT.BLI.  KFA00003 Ken Alden 07-Mar-1983 Global edit of all modules. Updated module names copyright dates. Changed require files to BLISS		

BUREARRAGERA

```
Processes the .DISPLAY NUMBER, & .DISPLAY SUBPA 16-Sep-1984 00:22:09
DSPPAG
V04-000
                                                                                                                                                                                                                                                VAX-11 Bliss-32 V4.0-742 
ERUNOFF.SRCJDSPPAG.BLI:1
                                                                                                                                                                                                                                                                                                                                                  Page
        *SBTTL 'Module Level Declarations'
                                                                       TABLE OF CONTENTS:
                                          0060
0061
0062
0063
0064
0066
0066
0198
0201
0202
0203
0204
                                                                       INCLUDE FILES:
                                                                    IBRARY 'NXPORT: XPORT';
                                                                                                                                                                                   XPORT Library
                                                                 REQUIRE 'REQ: RNODEF':
                                                                                                                                                                                   RUNOFF variant definitions
                                                                 MIF DSRPLUS MTHEN LIBRARY 'REQ:DPLLIB';
                                                                                                                                                                              ! DSRPLUS BLISS Library
                                                                 XELSE
                                                                 LIBRARY 'REQ:DSRLIB';
                                                                                                                                                                              ! DSR BLISS Library
                                          MACROS:
                                                                  Although the SET_DISPLAY macro has four parameters, it always appears as if it's being called with just one. That's because all the display names (e.g., SCT_PAGE_D) are really macros defining fields, and they expand into a "comma list" containing
                                                                  ! four items.
                                                                 MACRO
                                                                           SET_DISPLAY (a,b,c,d) = BEGIN
                                                                                    BEGIN

The display characteristics take effect on the next

page, at the very latest. So that is always safe to set.

NPAGEN [a,b,c,d] = .DISPLAY_CODE;

At the top of the first page this takes effect immediately, since nothing has been output yet at all. However, at the top of any other pages you have to be careful. If the user has given a .LAYOUT command that causes the page number to be centered at the bottom, the page number has not yet been output even if .PHAN_TOP_PAGE is set. In that case you need to let NEWPAG finish the page and then it's ok to use the display characteristics on the next page. On the other hand, if you're in the middle of the page it's ok to set the display characteristics immediately because the page number hasn't gone out yet, unless you're doing the standard layout.

Perhaps another way of describing what's going on here is simply to say that you can't let the display characteristics of the page number get out of synch with what's appeared or not appeared so far.

Note that there is a very close coordination with the workings of
                                                                                         Note that there is a very close coordination with the workings of
                                                                                         NEWPAG implied here.
                                                                                                   .PHAN_TOP_FIRST
                                                                                                             (NOT .PHAN_TOP_PAGE)
                                                                                                             AND (.HCT_CAYOUT NEQ LAYOUT_STANDARD) )
        111
                                                                                                  PAGEN [a,b,c,d] = .DISPLAY_CODE
                                                                                       END
        114
                                                                                                                                                                                                    %:
```

SPPAG 04-000	Processes the .DISPLAY NUMBER, & .DISPLAY SUBPA 16-Sep-1984 00:22:09 Module Level Declarations 14-Sep-1984 13:06:03	VAX-11 Bliss-32 V4.0-742 Page [RUNOFF.SRC]DSPPAG.BLI;1
116 117 118	0244 1   EQUATED SYMBOLS: 0246 1   EQUATED SYMBOLS: 0247 1	
116 117 118 119 120 122 123 124 127 128 129 131 133 134 135	0248 1 ! 0249 1 ! OWN STORAGE: 0250 1 !	
124 125 126	0252 1 : EXTERNAL REFERENCES:	
127 128	0255 1 EXTERNAL 0256 1 HCT : HCT_DEFINITION,	
130 131 132 133	0254 1 EXTERNAL REPERENCES: 0255 1 EXTERNAL 0256 1 HCT : HCT_DEFINITION, 0257 1 IRA : FIXED_STRING, 0258 1 PHAN : PHAN_DEFINITION, 0259 1 PAGEN : PAGE_DEFINITION, 0260 1 NPAGEN : PAGE_DEFINITION; 0261 1 0262 1 EXTERNAL ROUTINE 0263 1 GETDD, 0264 1 RSKIPS;	
134 135 136	0262 1 EXTERNAL ROUTINE 0263 1 GETDD, 0264 1 RSKIPS;	

```
Processes the .DISPLAY NUMBER, & .DISPLAY SUBPA 16-Sep-1984 00:22:09 Module Level Declarations 14-Sep-1984 13:06:03
DSPPAG
V04-000
                                                                                                                                     VAX-11 Bliss-32 V4.0-742 
ERUNOFF.SRCJDSPPAG.BLI:1
                                                                                                                                                                                                   (4)
                                                                                                                                                                                           Page
                        0265
0266
0267
                                    GLOBAL ROUTINE DSPPAG (HANDLER) : NOVALUE =
    14444456789012345678901234567890
                        0268
0269
0270
                                       FUNCTIONAL DESCRIPTION:
                                                See the ABSTRACT for a general description.
                                       FORMAL PARAMETERS:
                                                HANDLER indicates which command is to be processed.
                                       IMPLICIT INPUTS:
                                                Very close coordination with the workings of NEWPAG is implied.
                                       IMPLICIT OUTPUTS:
                                                                        None
                                       ROUTINE VALUE:
COMPLETION CODES:
                                                                        None
                                       SIDE EFFECTS: None
                                          BEGIN
                                          LOCAL
                                                GETDD RESULT.
DISPLAY_CODE;
                                          !Skip spaces and tabs before the display descriptor. RSKIPS (IRA);
                                          !And now actually try to get the discriptor.
GETDD_RESULT = GETDD (DISPLAY_CODE);
     171
    172
173
174
175
176
177
                                          !Ignore an invalid descriptor IF .GETDD_RESULT EQL -1 THEN
                                                RETURN:
    178
179
180
                                           Distinguish between missing display code and one that
                                           is given.
IF .GETDD_RESULT EQL 0
     181
182
183
184
185
                                          THEN
                                                 !No display code supplied
                                                BEGIN
                                                !Supply the standard display as the default DISPLAY_CODE = (SELECTONE .HANDLER OF
                                                                        SET [H_DISPLAY_NUMBE] : TCONVRT_DEC_NOZ; [H_DISPLAY_SUBPA] : TCONVRT_LET_UPP; TES );
    186
187
188
189
190
191
192
193
                                                END:
                                          SELECTONE . HANDLER OF
                                                SET
    194
```

DSPPAG V04-000 : 195 : 196 : 197	Process Module	CH DIS		SPLAY SUBPA 16-Sep- 14-Sep- SET_DISPLAY (SCT_PA SET_DISPLAY (SCT_SU		2:09 VAX-11 Bliss-32 V4.0-742 3:03 [RUNOFF.SRC]DSPPAG.BLI:1	Page 6 (4)
197 198 199	0325 0326	END;		!End of DSPPAG			
:					.TITLE	DSPPAG Processes the .DISPLAY NUMBER, & Y SUBFA	.DISPLA
					.EXTRN	HCT, IRA, PHAN, PAGEN NPAGEN, GETDD, RSKIPS	
					.PSECT	SCODES, NOWRT, 2	
			53 00000000G 52 00000000G 5E	000C 00000 EF 9E 00002 EF 9E 00009 04 C2 00010 EF 9F 00013	ENTRY MOVAB MOVAB SUBL2 PUSHAB CALLS PUSHL CALLS CMPL BEQL TSTL	DSPPAG, Save R2,R3 HCT+28, R3 PHAN+24, R2 #4, SP	0265
		000000006	00000000G	EF 9F 00013 01 FB 00019	PUSHAB	IRA #1, RSKIPS SP	0295
		00000000G	EF 8F	5E DD 00020 01 FB 00022 50 D1 00029	CALLS	#1, GETDD GETDD_RESULT, #-1	0298
				6A 13 00030 50 D5 00032	BEQL	GETDD_RESULT	0307
			50 04	EF 9E 00002 EF 9E 00009 04 C2 00010 EF 9F 00013 01 FB 00019 5E DD 00020 01 FB 00022 50 D1 00029 6A 13 00030 50 D5 00032 1D 12 00034 AC DO 00036 50 D1 0003A 04 12 0003D 50 D4 0003F 0D 11 00041 50 D1 00043 1\$:	MOVL CMPL BNEQ CLRL	HANDLER, RO RO, #38	0312 0314
			28 50	05 15 00046	BRB CMPL BEQL MNEGL	RO 3\$ RO, #40 2\$ #1, RO	0315
			50 6E 50 26	05 13 00046 01 CE 00048 03 11 0004B 02 DO 0004D 2\$: 50 DO 00050 3\$: AC DO 00053 4\$: 50 D1 00057 1E 12 0005A 6E FO 0005C 62 E8 00065 A2 E8 00068 63 D5 0006C 2C 13 0006E 6E FO 00070 5\$:	BRB MOVL MOVL CMPL BNEQ INSV BLBS BLBS TSTL BEQL INSV	%1, RO 3\$ #2, RO RO, DISPLAY_CODE HANDLER, RO RO, #38 6\$	0312 0319 0322
0000000G	EF	04	04 08 30 E8	DE FU 0003C	BNEQ INSV BLBS BLBS TSTL	OS DISPLAY_CODE, #4, #4, NPAGEN PHAN+24, 5\$ PHAN, 8\$ HCT+28 8\$	
000000006	EF	04	04	2C 13 0006E 6E F0 00070 5\$:	BEQL	BS DISPLAY_CODE, #4, #4, PAGEN	
			28	04 00079 50 D1 0007A 68:	CMPL	RO, #40	0323
0000000G	EF	04	00 08 0D E8	A2 E8 00068 63 D5 0006C 2C 13 0006E 6E F0 00070 5\$: 04 00079 50 D1 0007A 6\$: 1D 12 0007D 6E F0 0007F 62 E8 0008B A2 E8 0008B 63 D5 0008F 09 13 00091 6E F0 00093 7\$:	RET CMPL BNEQ INSV BLBS BLBS TSTL	DISPLAY_CODE, #0, #4, NPAGEN+12 PHAN+24, 7\$ PHAN, 8\$ HCT+28	
000000006	EF	04	00	09 13 00091 6E F0 00093 78:	BEQL	B\$ DISPLAY_CODE, #0, #4, PAGEN+12	

.

Processes the .DISPLAY NUMBER, & .DISPLAY SUBPA 16-Sep-1984 00:22:09 Module Level Declarations 14-Sep-1984 13:06:03 DSPPAG VO4-000 VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRCJDSPPAG.BLI;1 04 0009C 8\$: RET ; Routine Size: 157 bytes, Routine Base: \$CODE\$ + 0000 0327 1 END 0328 0 ELUDOM !End of module PSECT SUMMARY Name Bytes Attributes 157 NOVEC, NOWRT, RD , EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2) \$CODE\$

; 0326

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]XPORT.L32:1 \$255\$DUA28:[RUNOFF.SRC]DSRLIB.L32:1	590 1248	16	0	252 86	00:00.1 00:00.3

## COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:DSPPAG/OBJ=OBJ\$:DSPPAG MSRC\$:DSPPAG/UPDATE=(ENH\$:DSPPAG)

157 code + 0 data bytes 00:04.0 Size: Run Time: ; Elapsed Time: 00:12.7 ; Lines/CPU Min: 4969 ; Lexemes/CPU-Min: 14000 ; Memory Used: 47 pages ; Compilation Complete

0339 AH-BT13A-SE

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